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Proceedings of the Twenty-Fourth Annual Session of the Iowa Academy of Science: Staff & Committee Reports; Program

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PROCEEDINGS OF THE Twenty-Third Annual Session of the Iowa Academy of Science

The meeting of the twenty-fourth annual session of the Iowa Academy of Science was held in the Zoological Lecture Room, Blair Hall, Iowa College, Grinnell, on Friday and Saturday, April 29 and 30, 1910.

In the business meetings the following matters of general interest were presented:

REPORT OF THE SECRETARY.

To the Members of the Iowa Academy of Science:

One portion of the secretary's report has become monotonous; that is, that the publication of the proceedings has been delayed. And it has not been entirely the fault of the secretary. Things have seemed to conspire against the printing of the proceedings; even the United States government, in that the postal service failed to deliver some of the galley proof entrusted to its care. Beset with delays here; and misplaced cuts there, the secretary humbly apologizes for his own short comings, and promises he will attempt to induce others to recognize and to correct the error of their way.

For a short time this spring it seemed that it would be advisable to propose an amendment to the constitution to the effect that a third vice-president should be added to the list of officials. The president of the Academy has been in Columbia University all year, and consequently it was not practicable for him to preside at the annual meeting. The first vice president found it would not be at all convenient for him to attend. The second vice president with due modesty accepted the honor

thus falling upon him, and it seemed certain we were to have a presiding officer. Then, a few weeks ago a letter was received from him stating that circumstances had arisen making it impossible for him to be in attendance. When the condition of affairs was presented to the first vice president he said he would attend whether it were convenient or not. But instead of all three of these officials preparing presidential addresses, neither one of the three did. As a result the Academy must depart from custom this year and forego the usual address.

The membership of the Academy should be increased. The Illinois Academy, which was organized only a year or two ago, has a large membership. The Iowa Academy should enroll many of the high school science teachers. The large majority of our active members are college instructors and advanced college students. Since the science teachers in the high school do not have as long a tenure of office on the average as the college instructor, we cannot expect as large a number proportionally from their ranks as from the colleges. But there should be more of them with us. Suggestion from the college professor to the graduates in science, that they identify themselves with some scientific society would be conducive of good results. Personal work will add names to our roll.

In looking at a program of the Academy, it is at once evident that many sciences are represented by the active workers. There is no indication of concerted action among members in scientific research. Usually every title is entirely distinct from every other one; it is a subject standing out by itself. Such broadness and comprehensiveness in the work is in accord with the purpose of the Academy. Yet the query arises whether or not it would be a good plan to do some continuous work on state problems, the work being done by groups of those whose interests are similar. We have an effective Geological Survey. Work is being done scientifically and in order. Would it be feasible for a group of investigators to voluntarily work together, each in his own locality, upon some phase of a problem that would naturally fall to them? The botanists, chemists, and zoologists might institute surveys of the state. "You in your small corner and me in mine." Last year a letter was received from a member of the Academy, asking if there be any concerted action by committees upon assigned topics. Some years ago such committees were in existence, but not in recent time. In Vol. IV of the proceedings, there is an article on the Illinois Biological Station, in which the author raises the query as to the possibility of co-operation among the colleges of the state for the establishment of a laboratory for the study of the fauna and flora. That is probably not feasible, nor is there such need

since the establishment of the State University Laboratory at Lake Okoboji. But is it not possible for us to spend some time at our own laboratories on the same or on correlated topics, and in time attain to a more comprehensive view of the natural history of the state.

Respectfully submitted,

L. S. ROSS, Secretary.

PROGRAM OF THE IOWA ACADEMY OF SCIENCE.

The sessions of the Academy were held in the Zoological Lecture Room in Blair Hall, Iowa College, Grinnell, beginning at 1:30 p. m., Friday, April 29th.

The public address by Professor William A. Noyes of the University of Illinois, on "A Scientific Revolution," was given Friday at 8:00 p. m., in the College Chapel.

1. The Digestibility of Bleached Flour.....E. W. Rockwood
2. The Effect of Continued Grinding on Water of Crystallization.....
..... Nicholas Knight
3. A Study in the Determination of Calcium.....George W. Heise
(Introduction by W. S. Hendrixson.)
4. A Notice on the Cast Iron Casing in Well 4 at Grinnell.W. S. Hendrixson
5. The Iowa Lakeside Laboratory—IllustratedR. B. Wylie
6. The Flower of Elodea—IllustratedR. B. Wylie
7. Preliminary List of the Parasitic Fungi of Fayette County, Iowa...
.....Guy West Wilson
8. Prairie Openings in the Forest.....B. Shimek
9. The Influence of Air-Currents on Transpiration.....Miss Maud A. Brown
(Introduced by B. Shimek.)
10. Delayed GerminationL. H. Pammel and Charlotte M. King
11. The Problem of Weeds in the West.....L. H. Pammel
12. Spore Formation in *Lycogala Exiguum*.....Henry S. Conard
13. Some Geological Aspects of Artificial Drainage.....G. G. Wheat
14. The Pleistocene Record of the Simpson College Well.....John L. Tilton
15. The Aftonian Age of the Aftonian Mammalian Fauna.....Samuel Calvin
16. Some Standardizing Tests of Stern's Tone Variator.....R. H. Sylvester
(Introduced by C. E. Seashore.)
17. Discrimination Sensibility for Pitch Within the Tonal Range.....
.....H. G. Schaefer
(Introduced by C. E. Seashore.)
18. The Technique of Pitch Discrimination Measurements.....C. E. Seashore
19. Some Recent Discoveries Concerning Behavior of Platinum-Iridium
WiresLee P. Sieg
(Introduced by A. G. Smith.)
20. Concerning a Study of Kerosene Oils by Physical Methods..G. W. Stewart
(Introduced by A. G. Smith.)
21. Historical Sketch of Early Health Regulations in Iowa.....L. S. Ross

22. Contributions to the Herpetology of Northwestern Iowa.....Alexander G. Ruthven
(Introduced by R. B. Wylie.)
23. An Annotated Catalogue of the Recent Mammals of Iowa..T. Van Hyning
24. The Persistence of Certain Mollusks.....B. Shimek
25. The Development of the Posterior Lymph Hearts of the Loggerhead
 Turtle (*Thalassochelys caretta*)Frank A. Stromsten
26. The Development of the Sympathetic Nervous System in Birds.....
Albert Kuntz
27. Theory of Meteoritic Agglomeration; and the Ultimate Source of the
 OresCharles R. Keyes
28. Distribution of Bonanzas in the Pachuca Silver District of Mexico..
Charles R. Keyes
29. Maxwell Coulee; and the Diversion of the Rio Mora...Charles R. Keyes
30. A Preliminary Description of the Cranial Nerves of *Siren Lacertina*
H. W. Norris

REPORT OF THE COMMITTEE ON MEMBERSHIP.

NAMES PROPOSED FOR FELLOWS.

Henry Albert, Iowa City; L. S. Jodidi, Ames; J. T. McClintock, Iowa City; T. H. MacDonald, Ames; Henry J. Prentiss, Iowa City; Lee P. Sieg, Iowa City; G. W. Stewart, Iowa City.

NAMES PROPOSED FOR MEMBERS.

Florence Adams, Waucoma; Maud A. Brown, Iowa City; Margaret Buckley, Sloan; Oliver E. Buckley, Sloan; G. L. Cheney, Mt. Pleasant; Louise Douglass, Guttenberg; Fred A. Harvey, Denver, Colo.; George W. Heise, Grinnell; Charles W. Hungerford, Chester; Adelbert L. Leathers, Toledo; Florence Orr, Cedar Rapids; Ruth E. Patridge, Manard; Duana B. Rosenerans, Edgewood, R. H. Sylvester, Grinnell; George W. Tidd, Ft. Dodge.

REPORT OF THE COMMITTEE ON RESOLUTIONS.

Recognizing the primal importance of the public health, and the inefficiency of measures that are less than national in their scope,

Resolved, That the Iowa Academy of Science hereby expresses its hearty approval of the principle of the bill (S. 6049) now under the consideration of the National Congress, for the establishment of a National Department of Health, presided over by a secretary who shall be a member of the president's cabinet.

By virtue of the fact that there is now a general movement for the conservation of our natural resources, both by the national authorities and more recently by the state, therefore be it

Resolved, That the Iowa Academy of Science in session hereby reaffirm its endorsement of the general movement toward the conservation of our forests, rivers, lakes and mineral resources by the national government.

Resolved, That the Academy wishes further, to voice its approval of the work already begun by our own state through its State Geological Survey and Conservation Board, and urge upon our state authorities the desirability of confirming and extending the work already begun by these.

In consideration of the courtesies shown the members of the Iowa Academy of Science in connection with the 1910 meeting at Grinnell, Iowa, therefore

Resolved, That the Academy hereby express its appreciation of the hospitality of Grinnell, and extend thanks to Grinnell College, the local committee of the Academy, the Alumni Association of the College, and other citizens of Grinnell who have by their interest and efforts contributed to the success of the present session of the Academy.

(Signed) GUY WEST WILSON,
HARRY KELLY,
ROBERT B. WYLIE,
Committee.

NAMES OF THOSE IN ATTENDANCE.

Florence A. Adams; C. O. Bates; Maud A. Brown; J. A. Baker; Margaret Buckley; O. E. Buckley; H. S. Conard; E. Louise Douglass; Wesley Greene; J. E. Guthrie; Frederic A. Harvey; G. W. Heise; W. S. Hendrixson; Charles W. Hungerford; E. A. Jenner; G. F. Kay; Harry M. Kelly; C. N. Kinney; Adelbert L. Leathers; James H. Lees; H. W. Norris; L. H. Pammel; Ruth Patridge; Mrs. Gertrude B. Phillips; D. W. Rosencrans; L. S. Ross; H. G. Schaefer; B. Shimek; L. P. Sieg; Arthur G. Smith; G. W. Stewart; H. E. Summers; R. H. Sylvester; John L. Tilton; G. G. Wheat; Guy West Wilson; R. B. Wylie.

AMENDMENT TO THE CONSTITUTION.

The following proposed amendment was presented in due form and was adopted: In section 4, insert after the words, "required of each fellow" the words, "and \$1 of each member."

IOWA ACADEMY OF SCIENCE

TREASURER'S REPORT.

RECEIPTS.

Cash on hand, April 29, 1909.....	\$200.85
Dues and Initiation Fees, 1909-1910.....	147.00
Sale of Proceedings, etc.....	5.44
Interest on Deposits	7.84
	<hr/>
	\$361.13

EXPENDITURES.

Expense of Lecture 23d Meeting.....	\$ 23.00
Binding, reprints, mailing, Proceedings of 22d Meeting.....	95.50
Postage, typewriting, and incidental expenses of Secretary.....	12.40
Honorarium of Secretary, 1909-1910.....	25.00
Postage and receipts for Treasurer.....	4.50
Cash on hand, April 29, 1910.....	200.73
	<hr/>
	\$361.13

Respectfully submitted,

GEORGE F. KAY.

OFFICERS FOR THE YEAR 1910-11.

President	Gilbert L. Houser
First Vice-President	L. Begeman
Second Vice-President	A. A. Bennett
Secretary	L. S. Ross
Treasurer	George F. Kay

Executive Committee—

Ex-officio: Gilbert L. Houser, L. Begeman, A. A. Bennett, L. S. Ross, George F. Kay.

Elective: Guy West Wilson, C. N. Kinney, H. S. Conard.